

## Organizing Committee

Erol Tutumluer, Chair  
*University of Illinois at Urbana-Champaign*

Imad L. Al-Qadi, Co-chair and Highway Area  
Coordinator  
*Director of Illinois Center for Transportation  
(ICT), University of Illinois*

Christopher P. L. Barkan, Railroad Area  
Coordinator  
*Associate Professor and Director of  
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*University of Illinois at Urbana-Champaign*

David L. Lippert  
*Illinois Department of Transportation*

Rich Thuma  
*Crawford, Murphy & Tilly, Inc.*



## Invitation

The Organizing Committee has the pleasure of inviting you to the 8th International Conference on the Bearing Capacity of Roads, Railways, and Airfields, to be held in Champaign, Illinois, USA in June 2009. The conference is being organized by the University of Illinois at Urbana-Champaign, in cooperation with the U.S. Department of Transportation and the Illinois Department of Transportation. The BCR<sup>2</sup>A'09 Conference will provide an important opportunity to share experiences and innovative ideas from all over the world concerning the many issues pertaining to the bearing capacity of highway and airfield pavements and railroad track structures. The Committee encourages you to submit abstracts for technical papers and inquire about space for exhibition.

## Background and Scope

The main objective of the BCR<sup>2</sup>A Conference is to promote efficient design, construction, and maintenance of the transportation infrastructure by addressing issues related to the bearing capacity problems of roads, railways, and airfields. Bearing capacity issues are steadily changing because of ever-increasing traffic volumes and weights, which require stronger and more durable pavements, railroad track structures, and superstructures. New materials and methods are being developed, and new aspects of design and material utilization are being brought into focus. In this context, there is an increasing need for a forum where international experts in this field can exchange experiences and views, and identify the needs for further research and development. The BCR<sup>2</sup>A'09 Conference aims to provide such a forum for new concepts and innovative solutions, and will be an important meeting for researchers, practicing engineers, and other professionals.

## Paper Submission and Conference Time Schedule

- **March 15, 2008**  
Deadline for submitting abstracts via e-mail
- **April 30, 2008**  
Notification of abstract review results via e-mail
- **September 15, 2008**  
Deadline for submitting full papers via e-mail
- **December 15, 2008**  
Notification of full-paper review results via e-mail
- **January 10, 2009**  
Preliminary conference program and registration available
- **March 1, 2009**  
Deadline for submission of final revised papers via e-mail

All papers will be peer-reviewed by three reviewers for presentation and publication in the conference proceedings.

## Conference Secretariat

Erol Tutumluer  
*BCR<sup>2</sup>A'09 Chair*  
Department of Civil and Environmental Engineering  
1205 Newmark CEE Laboratory, MC-250  
University of Illinois at Urbana-Champaign  
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Phone: +1 217-333-8637 • Fax: +1 217-333-1924  
E-mail: BCR2Aconference@ad.uiuc.edu

## Conference Web Site

All necessary information will be available at the  
conference Web site:  
[www.BCR2A.org](http://www.BCR2A.org)



## SECOND ANNOUNCEMENT



## CALL FOR ABSTRACTS



**Eighth International Conference  
on the Bearing Capacity of  
Roads, Railways, and Airfields**

The University of Illinois  
at Urbana-Champaign  
June 29–July 2, 2009  
Champaign, Illinois, USA



## Conference Themes

The Conference will cover the following themes:

- Bearing capacity policies of roads, railways, and airfields
- Measurement of traffic loading
- In-situ measurements and condition surveys
- Modeling and methods of functional testing
- Backcalculation analyses of deflection measurements
- New and/or innovative techniques in compaction and construction
- Structural evaluation and performance prediction for pavements and railway tracks
- Structural design systems for new construction and rehabilitation
- Bearing capacity design for challenging heavy wheel/gear load effects
- Bearing capacity designs for challenging climatic (temperature and moisture), material degradation, and durability effects
- Drainage and environmental impacts
- Reinforcement of structural layers
- Utilization of traditional and recycled materials
- Full-scale testing: HVS, LTPP, etc.
- Case histories of roads, railways, and airfields



Nathan Newmark Civil and Environmental Engineering Laboratory

## International Advisory Committee

Invar Horvli, Chair  
*Norwegian University of Science and Technology, Norway*

Erol Tutumluer, Co-chair  
*University of Illinois at Urbana-Champaign, USA*

David R. Brill  
*Federal Aviation Administration, USA*

David D. Davis  
*Association of American Railroads, USA*

Guy Doré  
*Laval University, Canada*

Magdy El-Sibaie  
*Federal Railroad Administration, USA*

Brian Ferne  
*Transport Research Laboratory (TRL), United Kingdom*

Ralph Fischer  
*Deutsche Bahn AG - DB Systemtechnik, Germany*

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*Mackenzie Presbyterian University, Brasil*

Mahmoud H. Fraha  
*Canadian Civil Aviation, Transport Canada, Canada*

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*University of Minho/DEC, Portugal*

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*Research Institute, Japan*

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*Danish Road Directorate, Denmark*

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*Delft University of Technology, The Netherlands*

Ramesh Sinhal  
*Highways Agency, United Kingdom*

Dariusz Sybilski  
*Road and Bridge Research Institute, Poland*

Xinglong Wang  
*Heilongjiang Institute of Highway and Transport Research, P.R. China*

## Call for Abstracts

Papers relevant to BCR<sup>2</sup>A'09 that address the conference themes are invited. Abstracts should contain up to 350 words and include the affiliation and contact details of the authors. The preferred method of submission is through the conference Web page, [www.BCR2A.org](http://www.BCR2A.org). The deadline for submission is **March 15, 2008**. Abstracts can also be submitted as a MS Word or Adobe PDF document via e-mail to [BCR2Aconference@ad.uiuc.edu](mailto:BCR2Aconference@ad.uiuc.edu).

## The Venue

The BCR<sup>2</sup>A'09 Conference will be held at the new I Hotel and Conference Center on the campus of the University of Illinois at Urbana-Champaign ([www.uiuc.edu](http://www.uiuc.edu)). The new, state-of-the-art Conference Center will include the most modern, high-technology audio visual equipment and ergonomic seating to provide conference center attendees the best possible meeting experience. The center has ample space for sessions, exhibits, and networking with colleagues. The hotel has 126 guest rooms with stunning décor, comfortable furnishings, and upscale amenities such as high-speed wireless Internet and LCD flat screen televisions. Lodging for attendees will also be available at two other hotels within close proximity to the Conference Center in Champaign, Illinois ([www.visitchampaigncounty.org/](http://www.visitchampaigncounty.org/)).

## Exhibition and Poster Display

Indoor and outdoor advertising space will be available at the BCR<sup>2</sup>A'09 Conference for commercial displays and larger exhibits of equipment and products, as well as literature and poster displays. This will provide an opportunity to display and demonstrate new products and equipment to an international audience, and to discuss solutions with experts from all over the world. For information and to sign up for exhibition space, please contact the Conference Chair by e-mail at: [BCR2Aconference@ad.uiuc.edu](mailto:BCR2Aconference@ad.uiuc.edu).

## Pre-conference Workshops

The main focus of the specialty workshops will be bearing capacity requirements and mechanistic-based designs of highway and airfield pavements and railroad track structures. The following pre-conference workshops will be organized, in cooperation with individuals and agencies sponsoring the conference:

- Designing and Building a Sustainable Pavement Infrastructure
- Pavement Interlayer Systems
- Application of Asphalt in Railway Trackbed
- Mechanistic-based Thickness Designs for Railroad Track Structures
- Designs for New and Rehabilitated Airport Pavements
- Airport Pavement Maintenance and Management Systems

## Preliminary Conference Schedule/Social Events

### Monday, June 29

Pre-conference Workshops  
Registration  
Welcome Reception

### Tuesday, June 30

Registration  
Opening Session and Keynote Speakers  
Technical Visit to Advanced Transportation Research and Engineering Laboratory (ATREL), housing the Illinois Center for Transportation (ICT, [www.ict.uiuc.edu](http://www.ict.uiuc.edu)), and Reception

### Wednesday, July 1

Technical Sessions  
Conference Banquet

### Thursday, July 2

Closing Session  
Tour of Newmark CEE laboratory—AAR-Affiliated Laboratory and CEAT ([www.ceat.uiuc.edu](http://www.ceat.uiuc.edu))  
Closing Reception

### Friday, July 3

Technical Visit to Chicago's O'Hare International Airport Modernization Program  
Optional Chicago Drop-off for 4th of July Independence Day Festivities

## Preliminary Accompanying Person's Program

### Monday, June 29

Welcome Reception

### Tuesday, June 30

Tour of the Abraham Lincoln Presidential Museum ([www.alplm.org/home.html](http://www.alplm.org/home.html)) and Historic Springfield, Illinois

### Wednesday, July 1

Tour of Amish Country near Arthur, Illinois  
Conference Banquet

### Thursday, July 2

Campus Tour including Krannert Art Museum, Spurlock Museum, Japan House  
Closing Reception

### Friday, July 3

Shopping, Downtown Chicago, Illinois

### Saturday, July 4

USA Independence Day Festivities

